# Identity Access Management - IAM

**Amazon Web Services** 

**Duration: 60 min** 



IAM

## Introduction

- ❖ IAM is a web service that helps you securely control access to AWS resources.
- To manage users and their level of access to the AWS Console
- \* IAM is a Global Service, It doesn't Apply to regions.
- IAM Allows you to create
  - 1. Users
  - 2. Groups
  - 3. Policies
  - 4. Roles

## **Features**

- Shared Access to your AWS Account
- Granular Permissions
- Multi Factor Authentication
- Own Password Policies
- Identity Federation
- Supports PCI DSS Compliance

## **Root User**

- Root Account is the account created, when we setup our AWS Account
- Owner of our AWS Account
- It has Complete Admin Access
- Amazon recommend to not to use Root account for day to day activities

## **IAM User**

- ❖ IAM users are not separate accounts; they are users within your account.
- Own individual username & Password
- IAM User Access Types
  - 1. AWS Management Console Access
  - 2. Programmatic Acccess
- ❖ By default, New user will get No Permissions

## **AWS Management Console Access type**

- 1. Can login to AWS Account using Browser
- 2. Will Get Username & Password

# **Programatic Access Type**

- 1. Can Login to AWS Account using CLI, SDK or API
- 2. Will get Access Key ID & Secret Access Key

## Groups

- Collection of Identical Users
- Users will inherit the Permissions from the Group

## **Policies**

- Policies are made up of Documents, Which contains the Permission statements
- Policies are written in JSON Format
- Polices Can be attached to Users & Groups

# Roles

- Role is an Identity With the Permission Policies
- Roles Can be used to apply permissions to Resources

## To DO List

- 1. Activate MFA on AWS Account
- 2. Create a Password Policy With the below options.
  - a) Min Password Length 10 Characters
  - b) UpperCase Letters
  - c) Lower Case Letters
  - d) Numbers
  - e) Special Characters
  - f) Password history 3
  - g) Password age 45 Days